

2012 - Mazda6 - Transmission/ Transaxle

DTC P1783:00 [FS5A-EL]

DTC P1783:00	ATF high oil temperature malfunction
DETECTION CONDITION	- The TCM detects that ATF temperature is 149.5 °C {301.1 °F} or more when the following conditions are met. - TFT sensor circuit malfunction: not stored - Input voltage from the TFT sensor is 0.12 V or more Diagnostic support note - The MIL does not illuminate. - The AT warning light illuminates. - PENDING CODE is not available. - FREEZE FRAME DATA is not available. - The DTC is stored in the TCM memory.
POSSIBLE CAUSE	- High engine load drive (Driving a steep gradient at a low speed.) - Deteriorated ATF - Insufficient or excess level of ATF - TCM malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY RELATED REPAIR INFORMATION AVAILABILITY	Yes Perform repair or diagnosis according to the available repair information.
	- Verify related Service Bulletins and/or on-line repair information availability. - Is any related repair information available?	No Go to the next step.
2	VERIFY VEHICLE DRIVING CONDITIONS	Yes Go to Step 5.

	• Verify each PID of "HTM_CNT" and "HTM_DIS". • Verify vehicle driving conditions when a DTC P1783:00 is output. • Has the vehicle been driven at a high engine load?	Inform the customer that the transaxle temperature is high due to high engine load driving. No Go to the next step.
3	INSPECT ATF CONDITION • Inspect the ATF condition. (See AUTOMATIC TRANSAXLE FLUID (ATF) INSPECTION [FS5A-EL].) • Is it normal?	Yes Go to the next step. No Replace the ATF, then go to Step 5. (See AUTOMATIC TRANSAXLE FLUID (ATF) REPLACEMENT [FS5A-EL].)
4	INSPECT ATF LEVEL • Inspect the ATF level. (See AUTOMATIC TRANSAXLE FLUID (ATF) INSPECTION [FS5A-EL].) • Is it normal?	Yes Go to the next step. No Add ATF to the specified level, then go to Step 5. (See AUTOMATIC TRANSAXLE FLUID (ATF) REPLACEMENT [FS5A-EL].)
5	VERIFY TROUBLESHOOTING OF DTC P1783:00 COMPLETED • Make sure to reconnect all the disconnected connectors. • Clear the DTC using the M-MDS. • Perform the following procedure to ensure that the DTC has been resolved: ◦ Start the engine. ◦ Idle the engine. • Is the same DTC present?	Yes Replace the TCM, then go to the next step. (See TCM REMOVAL/ INSTALLATION [FS5A-EL].) No Go to the next step.
6	VERIFY NO DTCs ARE PRESENT • Perform the "Reading DTCs Procedure". (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FS5A-EL].) • Are any DTCs present?	Yes Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [FS5A-EL].) No DTC troubleshooting completed.

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		No	DTC troubleshooting completed.

